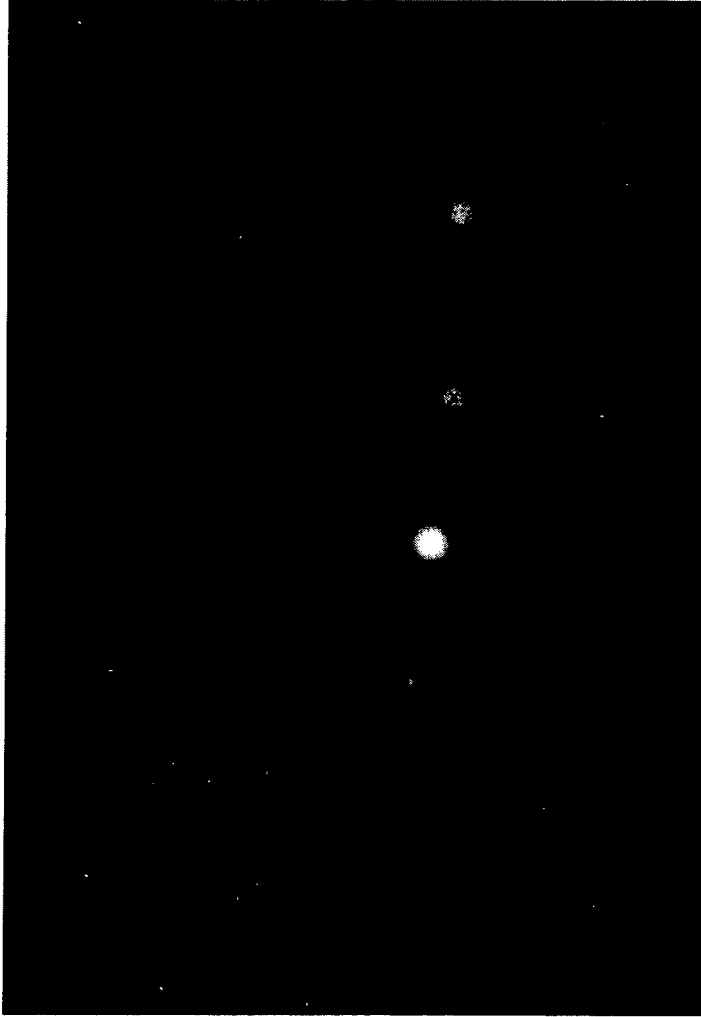


CYCLE
ADDED: 1 2 3 4 5 6 Black = Unlabeled Nucleotide
A C G T A C Red = Fluorescent Nucleotide



1

2

Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C					
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A					

FIG. 1

CYCLE
ADDED: 1 2 3 4 5 6 7 8
A C G T A C G T



1

2

Sample 1: 3'

P'

 A G C T G T ...5'
5'

P

 T C G
Sample 2: 3'

P'

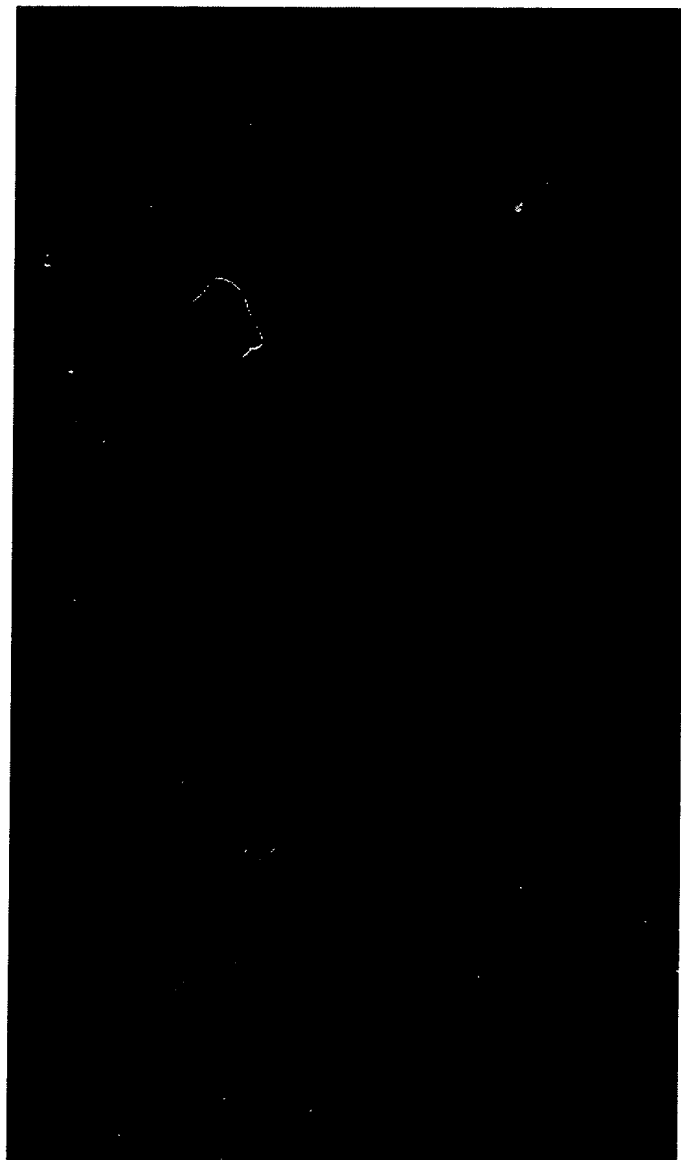
 G T C T A T ...5'
5'

P

 C A G

FIG. 2

CYCLE	1	2	3	4	5	6	7	8	9	10
ADDED:	A	C	G	T	A	C	G	T	A	C



1

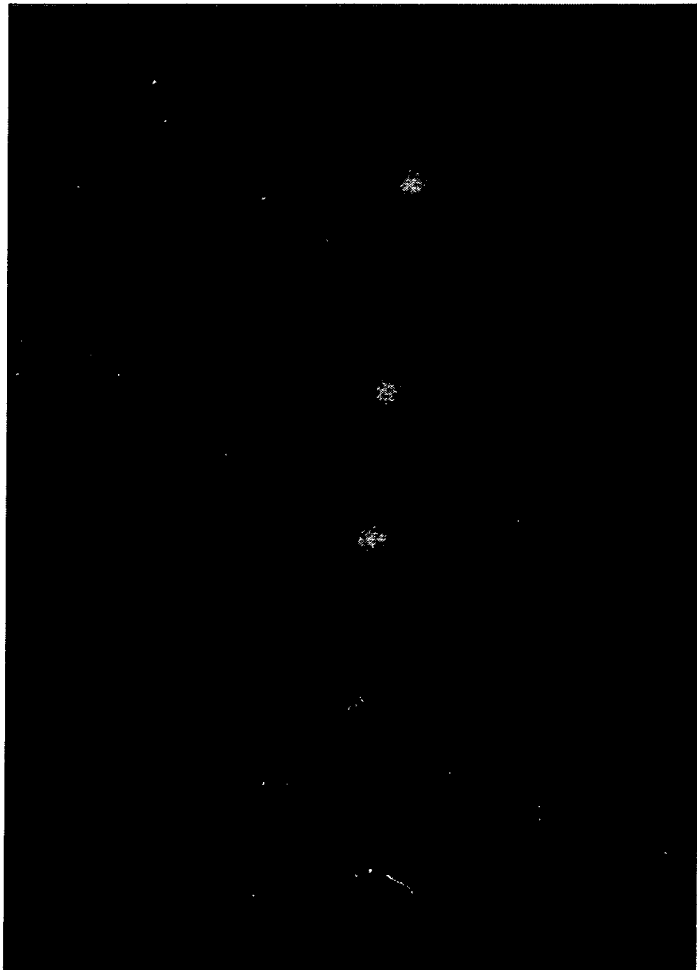
2

Sample 1:	3'	<div style="border: 1px solid black; padding: 2px;">P'</div>	A	G	C	T	G	T	...5'
	5'	<div style="border: 1px solid black; padding: 2px;">P</div>	T	C	G	A	C		
Sample 2:	3'	<div style="border: 1px solid black; padding: 2px;">P'</div>	G	T	C	T	A	T	...5'
	5'	<div style="border: 1px solid black; padding: 2px;">P</div>	C	A	G	A			

FIG. 3

CYCLE
ADDED:

1	2	3	4	5	6	7	8	9	10	11	12
A	C	G	T	A	C	G	T	A	C	G	T



1

2

Sample 1:	3'	P'	A	G	C	T	G	T	...5'
	5'	P	T	C	G	A	C		
Sample 2:	3'	P'	G	T	C	T	A	T	...5'
	5'	P	C	A	G	A	T		

FIG. 4

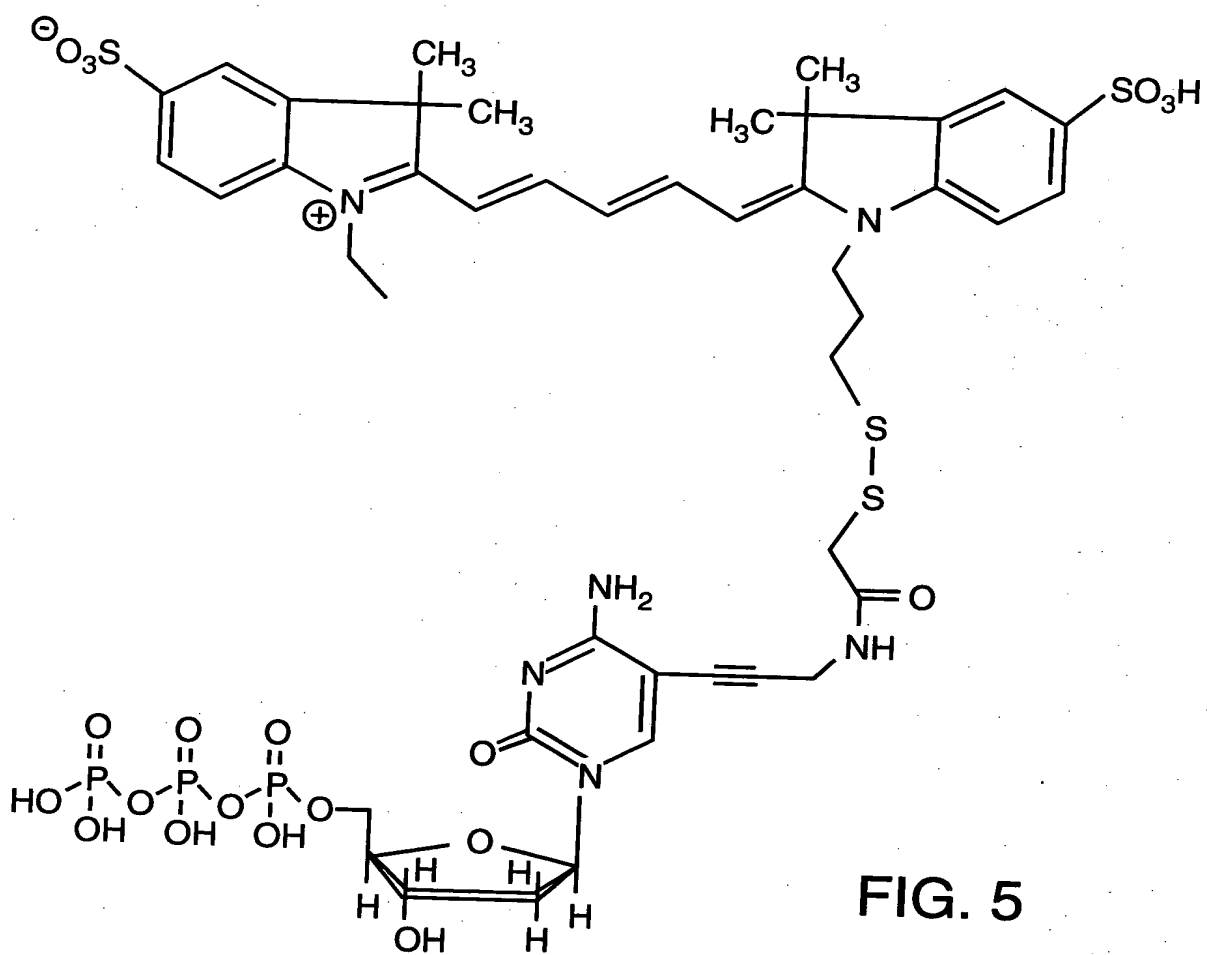
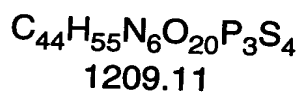


FIG. 5



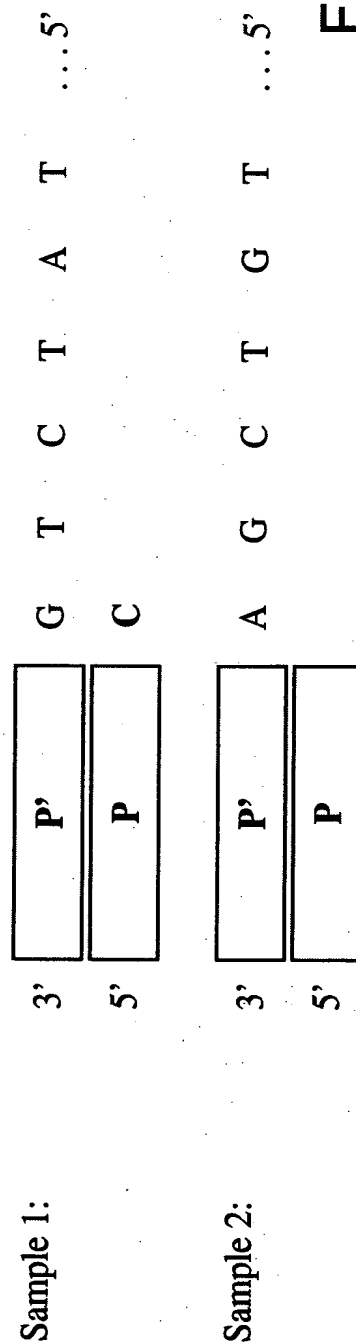


FIG. 6

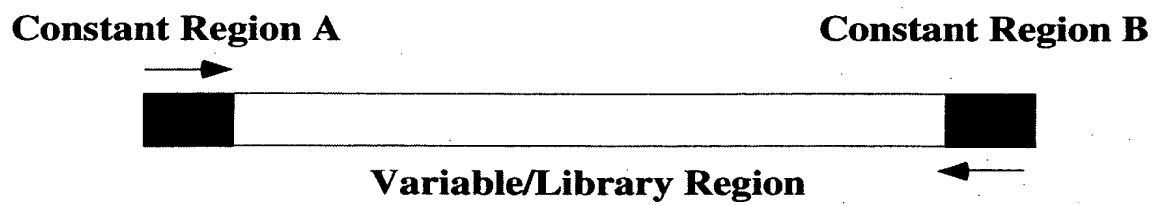


FIG. 7

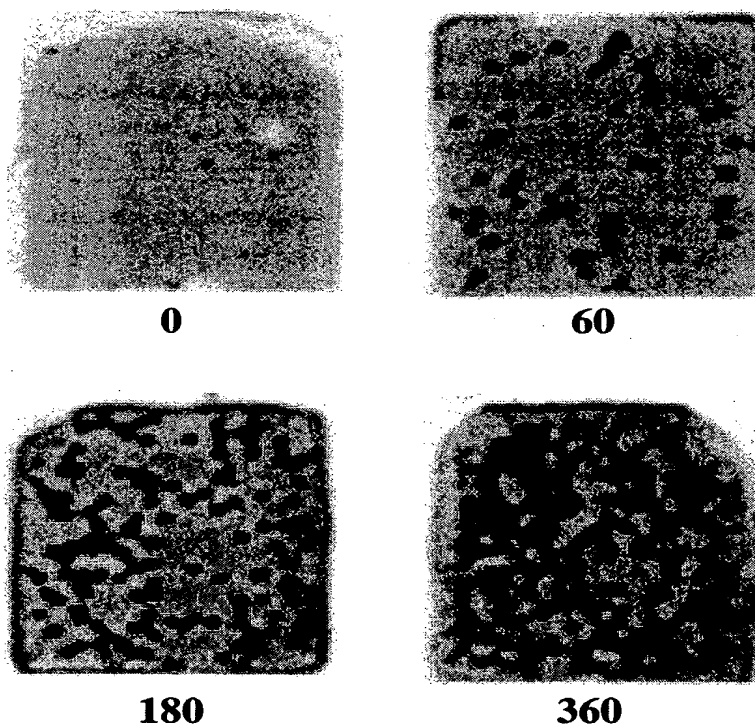


FIG. 8A

09767764.012301

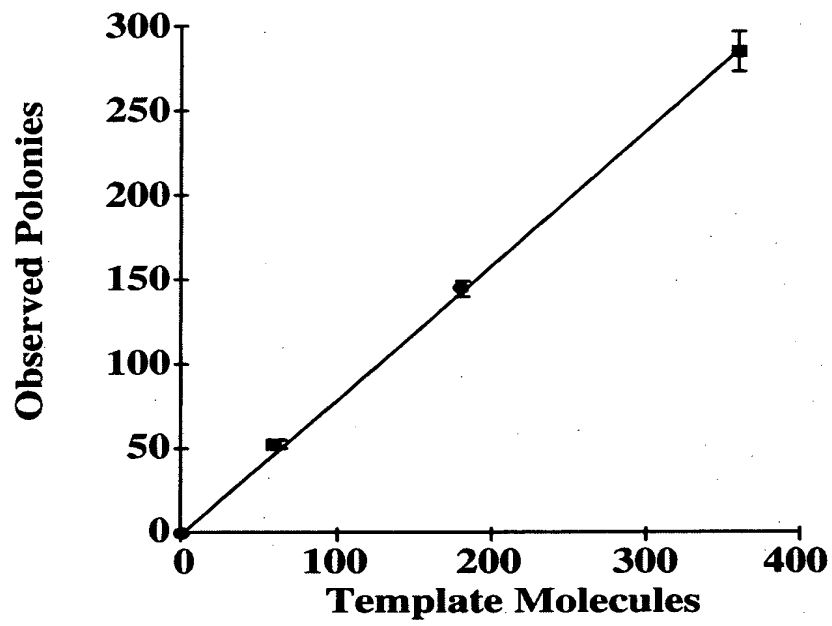


FIG. 8B

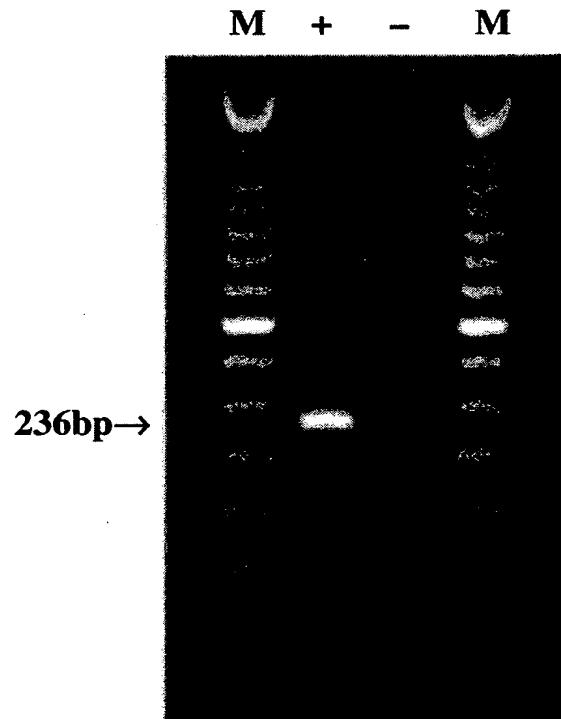


FIG. 8C

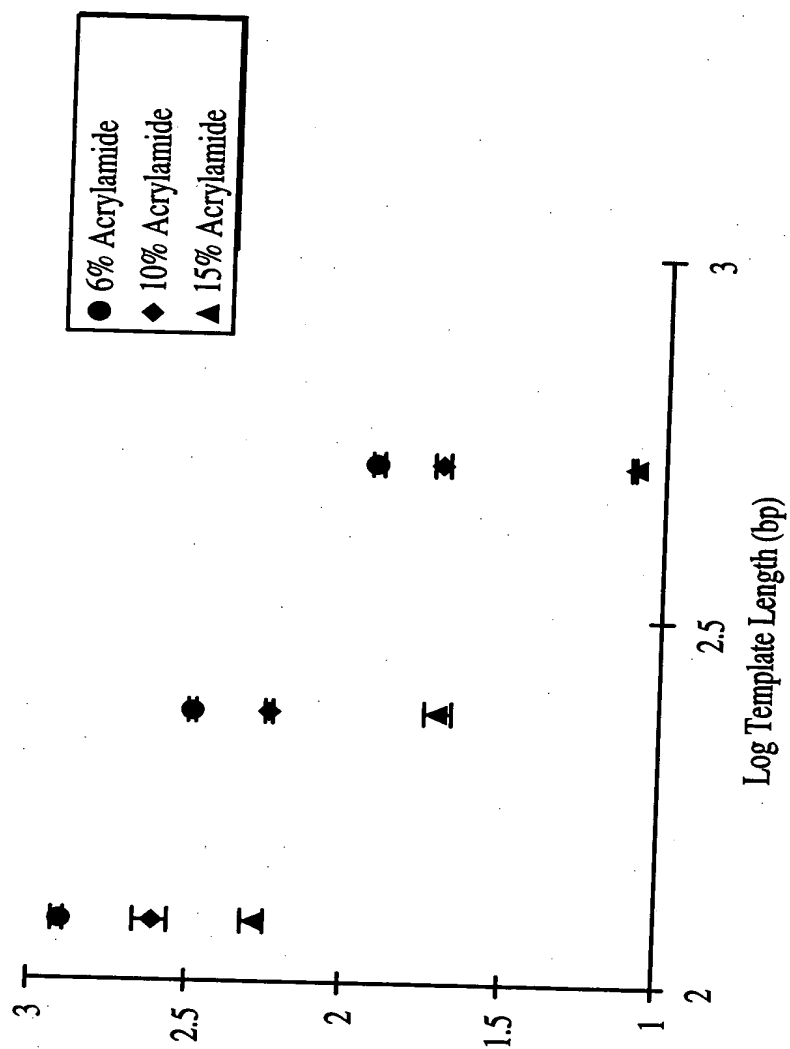


FIG. 9A

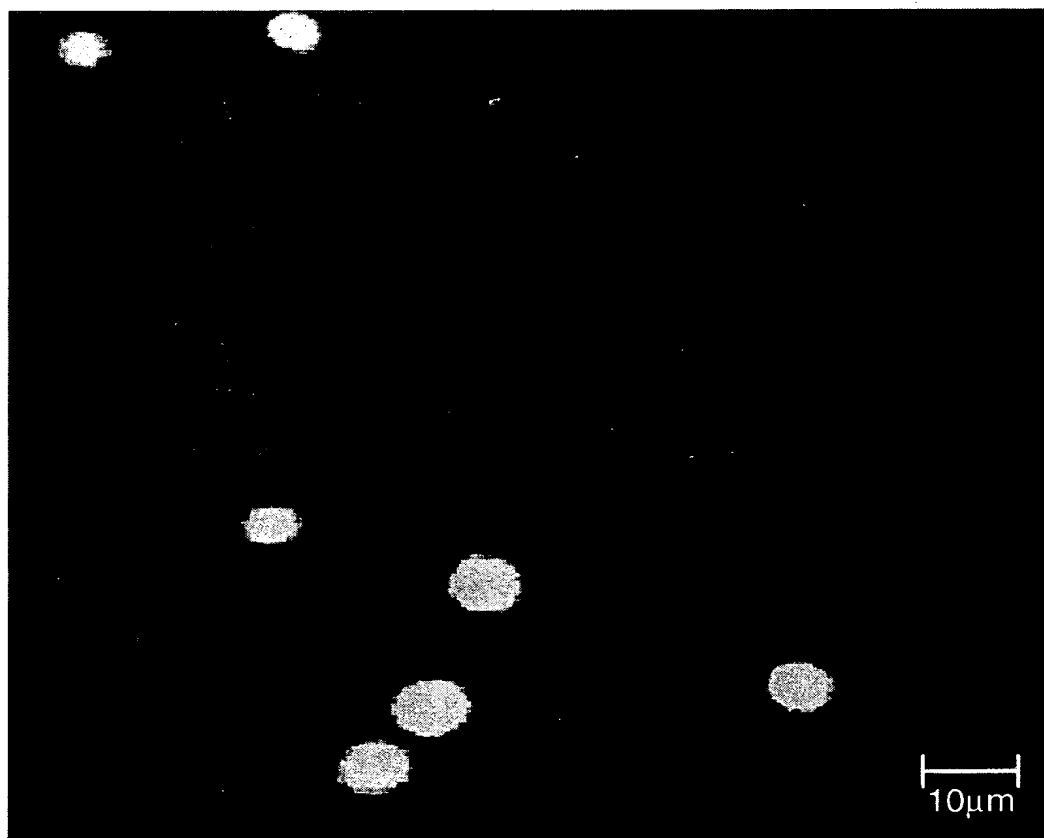


FIG. 9B

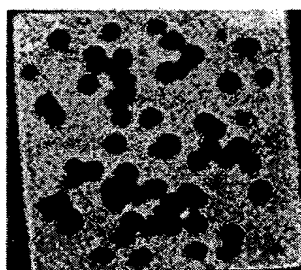


FIG. 10A

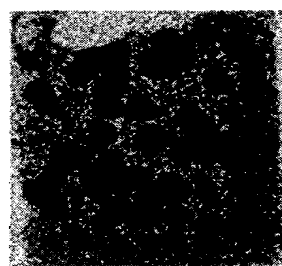


FIG. 10B

09767764, 012301